

07030050 HATCHIE RIVER AT RIALTO, TN

LOCATION.--Lat 35°38'14", long 89°36'33", Lauderdale County, Hydrologic Unit 08010208, at bridge on U.S. Highway 51, 6.5 mi north of Covington, and 1.5 mi west of Rialto, and at mile 34.

DRAINAGE AREA.--2,308 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 2003 to current year. Low flow measurements, water year, 1977, 1978.

GAGE.--Data collection platform operated by Memphis District Corps of Engineers. Datum of gage is 239.81 ft above NGVD of 1929 determined by the Memphis District Corps of Engineers.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1937 reached a stage of 23.54 ft, discharge not determined, maximum discharge of 55,700 ft³/s, determined on June 13, 1946. Minimum discharge 180 ft³/s, determined on July 9, 1943 from reports by Memphis District Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 20,600 ft³/s, Feb. 13, gage height 17.01 ft; minimum discharge, 721 ft³/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,100	1,220	5,600	3,540	5,340	6,440	1,700	7,670	3,070	3,050	2,450	1,830
2	2,120	1,170	5,450	3,770	5,310	6,150	1,710	7,100	3,400	3,430	1,760	1,850
3	1,930	1,110	5,300	3,760	5,450	5,790	1,750	6,800	3,560	3,530	1,470	1,910
4	1,580	1,060	5,230	3,620	5,710	5,490	1,770	6,490	3,560	3,310	1,420	1,980
5	1,300	1,030	5,010	3,600	7,960	5,290	1,760	6,040	3,100	3,160	1,660	1,990
6	1,160	998	4,750	3,570	9,950	5,180	1,710	5,490	2,430	3,170	1,790	1,950
7	1,080	972	4,440	3,570	12,500	5,020	1,640	4,970	2,120	3,330	1,840	1,830
8	1,020	950	4,110	3,560	15,500	5,000	1,590	4,360	1,980	3,530	1,930	1,660
9	973	936	3,730	3,540	15,000	5,140	1,530	3,760	1,850	4,020	2,030	1,490
10	957	948	3,670	3,470	13,500	5,400	1,480	3,450	1,780	4,740	2,150	1,350
11	955	968	3,470	3,340	12,400	5,770	1,440	3,380	1,650	5,420	2,240	1,250
12	961	968	3,300	3,130	15,800	6,230	1,470	3,190	1,570	5,910	2,280	1,230
13	958	949	3,150	2,840	20,000	6,670	1,960	2,790	1,510	5,930	2,120	1,240
14	1,030	935	3,060	2,560	19,600	6,960	2,790	2,550	1,490	5,620	1,660	1,180
15	1,120	1,020	3,030	2,330	16,800	6,990	3,400	2,610	1,610	5,260	1,330	1,060
16	1,080	1,410	3,060	2,180	14,000	6,900	3,780	2,830	2,050	4,940	1,320	1,000
17	1,010	1,350	3,070	2,070	12,000	6,690	3,870	3,290	2,020	4,630	1,420	1,020
18	1,000	1,870	3,090	2,100	10,500	6,380	3,750	3,350	1,900	4,240	1,430	1,040
19	998	2,330	3,100	2,200	9,470	5,980	3,650	3,180	1,770	3,960	1,330	1,010
20	978	2,580	3,100	2,190	8,770	5,590	3,710	2,990	1,800	3,710	1,230	962
21	977	2,810	3,070	2,100	8,230	5,500	3,940	2,880	1,840	3,410	1,450	931
22	1,000	2,920	3,010	2,040	7,810	5,150	5,150	2,860	1,950	3,110	1,360	919
23	1,020	2,960	3,240	2,040	7,510	4,730	6,740	2,870	2,010	2,880	1,300	900
24	996	3,720	3,510	2,080	7,330	4,240	9,350	2,890	2,150	2,760	2,340	867
25	990	3,900	3,700	3,110	7,230	3,470	13,000	2,910	2,350	2,870	3,260	830
26	1,550	4,100	3,580	4,020	7,230	2,720	14,300	2,940	2,470	3,070	3,580	799
27	1,240	4,900	3,220	4,800	7,140	2,240	15,400	2,980	2,490	3,070	2,750	780
28	1,120	5,470	2,840	5,490	6,890	2,000	13,300	3,010	2,430	3,080	2,030	768
29	1,100	5,570	2,800	5,950	6,510	1,860	10,700	2,970	2,420	3,130	2,520	748
30	1,150	5,660	3,100	5,940	---	1,780	8,820	2,610	2,670	3,170	2,220	729
31	1,210	---	3,350	5,590	---	1,730	---	2,920	---	3,070	1,940	---
TOTAL	36,663	66,784	114,140	104,100	301,440	154,480	147,160	118,130	67,000	118,510	59,610	37,103
MEAN	1,183	2,226	3,682	3,358	10,390	4,983	4,905	3,811	2,233	3,823	1,923	1,237
MAX	2,120	5,660	5,600	5,950	20,000	6,990	15,400	7,670	3,560	5,930	3,580	1,990
MIN	955	935	2,800	2,040	5,310	1,730	1,440	2,550	1,490	2,760	1,230	729
CFSM	0.51	0.96	1.60	1.45	4.50	2.16	2.13	1.65	0.97	1.66	0.83	0.54
IN.	0.59	1.08	1.84	1.68	4.86	2.49	2.37	1.90	1.08	1.91	0.96	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	1,183	2,226	3,682	3,358	10,390	4,983	4,905	7,788	2,468	2,690	2,174	1,198
MAX	1,183	2,226	3,682	3,358	10,390	4,983	4,905	11,770	2,703	3,823	2,425	1,237
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2004)
MIN	1,183	2,226	3,682	3,358	10,390	4,983	4,905	3,811	2,233	1,557	1,923	1,159
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)

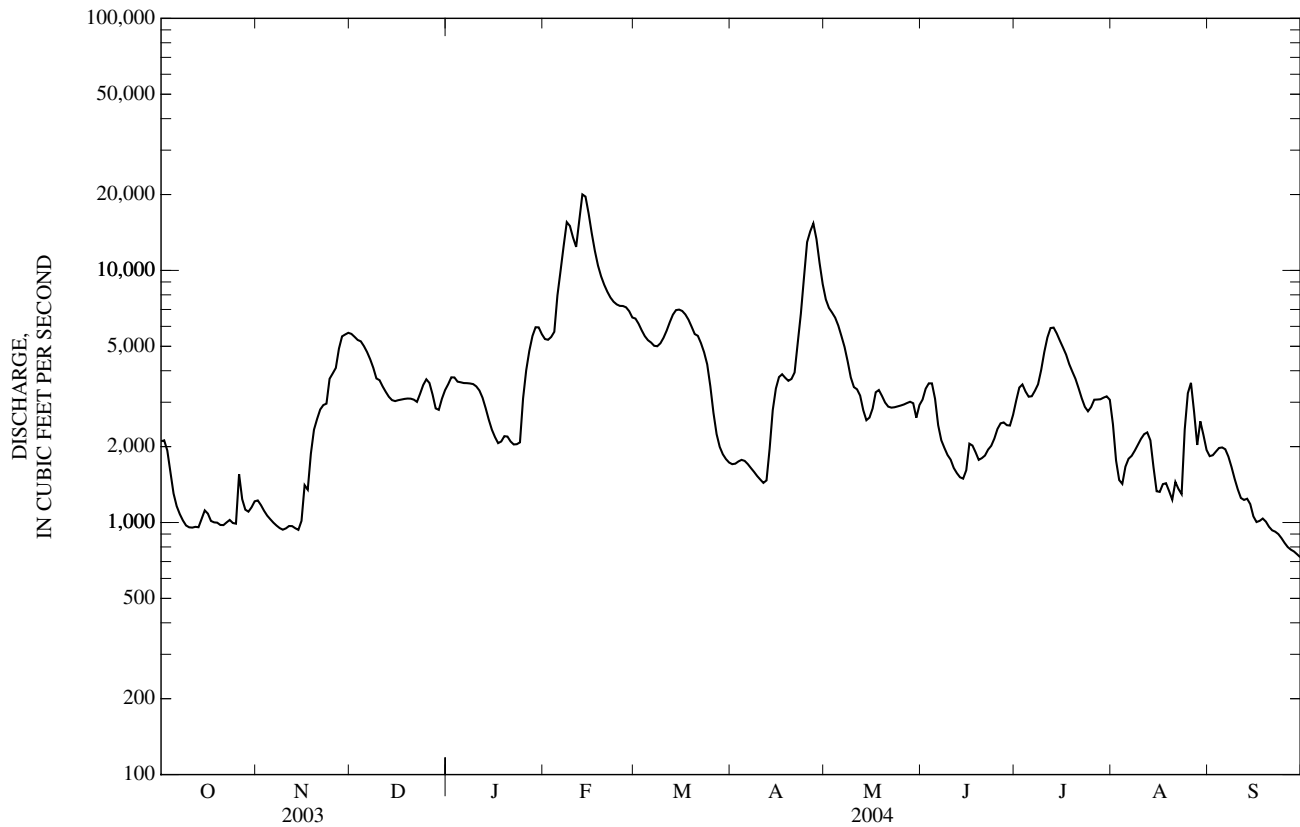
07030050 HATCHIE RIVER AT RIALTO, TN—Continued

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	1,325,120			
ANNUAL MEAN	3,621			
HIGHEST ANNUAL MEAN			3,621	2004
LOWEST ANNUAL MEAN			3,621	2004
HIGHEST DAILY MEAN	20,000	Feb 13	24,000	May 12, 2003
LOWEST DAILY MEAN	729	Sep 30	729	Sep 30, 2004
ANNUAL SEVEN-DAY MINIMUM	789	Sep 24	789	Sep 24, 2004
ANNUAL RUNOFF (CFSM)	1.57		1.57	
ANNUAL RUNOFF (INCHES)	21.36		21.31	
10 PERCENT EXCEEDS	6,830		6,830	
50 PERCENT EXCEEDS	2,920		2,920	
90 PERCENT EXCEEDS	1,020		1,020	



07030050 HATCHIE RIVER AT RIALTO, TN—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2003 to September 2004.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February to September 2004.

pH: February to September 2004.

WATER TEMPERATURE: February to September 2004.

DISSOLVED OXYGEN: February to September 2004.

TURBIDITY: February to September 2004.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the record were due to instrument malfunctions. Record for water temperature, specific conductance and pH are good. Records for dissolved oxygen and turbidity are fair.

EXTREMES FOR CURRENT PERIOD.--February to September 2004.

WATER TEMPERATURE: Maximum, 28.8°C, July 16; minimum, 3.3°C, Feb. 8-9.

SPECIFIC CONDUCTANCE: Maximum, 110 microsiemens, Apr. 13; minimum, 33 microsiemens, Feb. 13-14.

DISSOLVED OXYGEN: Maximum, 12.1 mg/L, Feb. 13; minimum, 4.9 mg/L, Apr. 23-24.

pH: Maximum, 7.6 units, Mar. 1; minimum, 6.1 units, Aug. 25-26.

TURBIDITY: Maximum, 350 NTU, May 31; minimum, 10 NTU, July 15.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	7.6	7.2	7.4	---	---	---
7	---	---	---	---	---	---	7.4	6.9	7.2	---	---	---
8	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
9	---	---	---	---	---	---	8.3	7.2	7.7	---	---	---
10	---	---	---	---	---	---	8.6	7.8	8.2	---	---	---
11	---	---	---	---	---	---	7.8	7.5	7.6	---	---	---
12	---	---	---	---	---	---	7.5	7.0	7.3	---	---	---
13	---	---	---	---	---	---	7.0	6.6	6.7	---	---	---
14	---	---	---	---	---	---	6.6	6.0	6.3	---	---	---
15	---	---	---	---	---	---	6.0	5.7	5.9	---	---	---
16	---	---	---	---	---	---	6.3	6.0	6.2	---	---	---
17	---	---	---	---	---	---	6.0	5.6	5.8	---	---	---
18	---	---	---	---	---	---	6.1	5.8	6.0	---	---	---
19	---	---	---	---	---	---	5.9	5.6	5.7	---	---	---
20	---	---	---	---	---	---	5.6	5.2	5.4	---	---	---
21	---	---	---	---	---	---	5.3	4.9	5.1	---	---	---
22	---	---	---	---	---	---	5.8	5.2	5.4	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	8.6	4.9	6.5	---	---	---

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	11.6	10.3	10.9	16.0	15.2	15.6	19.7	19.2	19.6
2	---	---	---	12.6	11.4	11.9	15.9	14.8	15.4	19.2	18.4	18.8
3	---	---	---	13.0	12.4	12.6	15.9	14.9	15.5	18.5	17.6	18.0
4	5.1	4.4	4.8	14.2	13.0	13.5	15.9	15.0	15.5	17.8	16.8	17.3
5	5.0	4.3	4.7	14.5	14.2	14.4	15.6	14.8	15.3	18.9	17.3	18.1
6	5.0	4.8	5.0	14.9	14.1	14.5	15.9	14.7	15.3	19.9	18.4	19.1
7	4.8	3.9	4.4	14.9	14.1	14.5	15.8	15.3	15.5	20.9	19.4	20.1
8	3.9	3.3	3.6	14.3	13.5	14.0	16.6	15.2	15.9	21.7	20.5	21.1
9	3.7	3.3	3.5	13.8	12.6	13.3	17.0	15.8	16.4	22.4	21.4	21.9
10	4.5	3.7	4.1	12.7	11.7	12.2	16.9	16.4	16.6	22.7	22.2	22.4
11	5.2	4.4	4.8	12.3	11.4	11.8	16.9	16.2	16.6	22.9	22.2	22.5
12	5.7	5.1	5.3	12.1	11.1	11.6	16.6	14.8	15.8	22.7	22.3	22.5
13	5.4	5.0	5.2	11.5	10.8	11.2	14.8	12.7	13.7	22.3	22.2	22.3
14	5.5	5.0	5.3	11.8	11.1	11.4	13.4	12.2	12.7	22.2	21.7	21.9
15	5.6	5.3	5.4	11.7	11.1	11.5	13.5	12.0	12.7	21.7	21.0	21.3
16	5.3	4.7	5.1	11.8	11.4	11.7	14.7	13.1	13.8	21.2	20.7	20.9
17	5.8	4.7	5.3	12.5	10.9	11.7	16.1	14.6	15.2	21.6	21.0	21.3
18	6.5	5.2	5.8	14.1	12.2	13.1	17.6	16.1	16.7	22.3	21.3	21.8
19	7.6	6.1	6.8	15.3	13.7	14.5	18.8	17.6	18.2	23.2	22.1	22.6
20	9.1	7.6	8.3	16.3	15.2	15.8	20.0	18.8	19.4	24.2	23.0	23.5
21	9.4	8.4	8.9	16.2	15.2	15.8	19.9	19.4	19.7	24.8	23.9	24.3
22	9.5	8.5	9.0	15.2	14.4	14.8	19.4	18.2	18.9	25.4	24.5	24.9
23	9.8	9.1	9.4	14.6	13.5	13.9	19.8	18.8	19.2	25.5	24.9	25.2
24	10.2	9.7	9.9	14.2	13.2	13.7	19.9	19.1	19.5	25.9	25.1	25.5
25	9.7	8.5	9.0	15.2	14.1	14.6	19.8	19.6	19.7	25.8	25.4	25.6
26	8.7	8.0	8.4	16.4	15.1	15.7	19.7	19.1	19.4	25.8	25.4	25.6
27	8.8	7.7	8.3	17.3	16.1	16.7	19.4	18.8	19.1	25.6	25.2	25.4
28	9.4	8.0	8.7	18.3	17.0	17.6	19.0	18.2	18.6	25.2	24.9	25.0
29	10.3	9.1	9.7	18.2	17.7	17.9	19.1	18.3	18.7	24.9	24.5	24.7
30	---	---	---	17.8	17.1	17.4	19.7	18.8	19.2	25.2	24.6	24.9
31	---	---	---	17.1	16.0	16.5	---	---	---	24.7	23.6	24.1
MONTH	10.3	3.3	6.5	18.3	10.3	13.9	20.0	12.0	16.8	25.9	16.8	22.3
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.8	24.1	24.4	24.8	24.4	24.5	26.3	25.2	25.7	25.5	24.7	25.2
2	24.9	24.1	24.5	24.8	24.3	24.5	---	---	---	25.5	24.9	25.2
3	24.6	24.0	24.3	25.2	24.5	24.8	---	---	---	25.2	24.8	25.0
4	24.3	23.6	23.9	---	---	---	---	---	---	25.2	24.4	24.8
5	24.5	23.6	24.1	---	---	---	---	---	---	25.4	24.5	25.0
6	24.3	23.9	24.0	---	---	---	---	---	---	25.8	24.8	25.3
7	24.3	23.8	24.0	---	---	---	---	---	---	25.6	25.0	25.3
8	25.0	23.8	24.3	---	---	---	---	---	---	25.4	24.5	25.0
9	25.2	24.5	24.8	---	---	---	---	---	---	25.4	24.6	25.0
10	25.8	24.7	25.3	---	---	---	---	---	---	25.3	24.3	24.9
11	26.6	25.4	26.0	---	---	---	25.8	25.2	25.5	25.2	24.2	24.8
12	27.4	26.1	26.7	---	---	---	25.2	24.6	24.9	25.3	24.5	24.9
13	27.0	26.4	26.7	---	---	---	24.7	23.8	24.2	24.8	23.8	24.2
14	27.4	26.0	26.7	---	---	---	24.0	23.0	23.6	25.0	24.0	24.5
15	27.3	26.1	26.7	---	---	---	24.1	23.1	23.6	25.5	24.5	25.0
16	26.5	25.9	26.1	28.0	26.8	27.3	24.1	22.8	23.5	25.2	24.8	25.0
17	26.8	25.9	26.3	27.2	26.4	26.8	24.0	23.0	23.6	25.2	24.2	24.7
18	27.4	26.1	26.8	27.0	26.4	26.7	24.8	23.5	24.2	24.8	23.9	24.4
19	27.6	27.0	27.3	26.6	25.9	26.3	25.0	24.0	24.6	24.4	23.4	23.9
20	27.4	26.6	27.0	26.6	25.9	26.3	24.9	24.4	24.7	23.8	22.8	23.3
21	27.1	26.3	26.7	26.9	26.1	26.5	24.7	24.0	24.3	23.2	22.1	22.8
22	26.3	25.9	26.0	27.2	26.4	26.8	24.9	23.9	24.5	23.1	22.0	22.6
23	26.1	25.6	25.8	27.5	26.7	27.1	25.8	24.1	25.0	23.0	22.2	22.7
24	25.6	25.0	25.3	27.6	27.0	27.3	24.8	23.5	24.1	23.0	22.4	22.7
25	25.4	24.8	25.0	27.4	26.4	26.9	24.7	24.3	24.5	23.4	22.5	23.0
26	25.0	24.4	24.7	26.4	25.3	25.8	25.8	24.4	25.1	23.2	22.5	22.8
27	25.2	24.4	24.8	25.6	24.9	25.2	26.5	25.6	26.0	22.5	21.5	22.1
28	25.5	24.7	25.1	25.3	24.6	24.9	26.5	25.4	26.2	22.2	21.4	21.8
29	25.7	25.1	25.4	24.7	24.2	24.5	25.4	25.0	25.2	21.9	21.1	21.6
30	25.4	24.8	25.1	24.7	24.3	24.5	25.4	24.9	25.2	21.5	20.5	21.0
31	---	---	---	25.5	24.6	25.0	25.5	24.6	25.1	---	---	---
MONTH	27.6	23.6	25.5	28.0	24.2	25.9	26.5	22.8	24.7	25.8	20.5	23.9

HATCHIE RIVER BASIN

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	65	63	64	---	---	---
7	---	---	---	---	---	---	65	64	65	---	---	---
8	---	---	---	---	---	---	66	65	65	---	---	---
9	---	---	---	---	---	---	66	65	65	---	---	---
10	---	---	---	---	---	---	79	66	71	---	---	---
11	---	---	---	---	---	---	71	69	70	---	---	---
12	---	---	---	---	---	---	69	69	69	---	---	---
13	---	---	---	---	---	---	69	68	69	---	---	---
14	---	---	---	---	---	---	68	67	67	---	---	---
15	---	---	---	---	---	---	67	66	67	---	---	---
16	---	---	---	---	---	---	67	66	66	---	---	---
17	---	---	---	---	---	---	66	65	65	---	---	---
18	---	---	---	---	---	---	65	65	65	---	---	---
19	---	---	---	---	---	---	66	65	65	---	---	---
20	---	---	---	---	---	---	66	66	66	---	---	---
21	---	---	---	---	---	---	68	66	67	---	---	---
22	---	---	---	---	---	---	68	68	68	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	79	63	67	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	65	54	59	66	65	65	57	55	56
2	---	---	---	62	58	60	65	63	64	60	57	59
3	---	---	---	64	62	63	63	62	62	64	60	62
4	48	47	48	64	63	64	62	60	61	64	62	63
5	68	46	49	68	64	65	62	60	61	66	63	64
6	47	45	46	68	66	67	64	62	63	67	65	66
7	45	43	44	66	66	66	65	64	64	68	67	67
8	43	40	41	66	63	64	69	65	67	68	67	68
9	41	41	41	63	60	61	70	69	69	68	68	68
10	41	39	40	60	57	59	71	69	70	99	68	73
11	39	37	38	57	56	56	70	69	69	82	75	78
12	37	35	37	56	55	56	90	68	75	91	74	77
13	35	33	34	56	55	55	110	79	94	85	80	81
14	35	33	34	56	56	56	96	80	87	98	82	91
15	36	35	36	57	56	56	82	72	79	101	93	97
16	36	36	36	58	57	57	72	65	68	96	84	89
17	38	36	37	59	58	58	65	59	62	96	79	87
18	39	37	38	61	59	60	59	56	58	80	73	77
19	41	39	40	63	61	61	56	56	56	73	68	70
20	42	41	41	68	62	64	57	56	56	68	65	66
21	44	42	43	77	68	69	62	57	58	65	65	65
22	46	44	45	71	69	70	85	62	76	65	64	64
23	48	46	47	71	63	67	79	74	77	67	65	66
24	50	48	49	64	63	63	77	64	70	69	67	68
25	50	50	50	64	64	64	65	58	61	70	69	69
26	51	50	51	64	64	64	59	54	57	72	70	71
27	51	51	51	65	64	64	54	51	52	73	71	72
28	53	51	52	65	64	65	53	51	52	73	73	73
29	55	52	53	67	64	65	53	52	53	75	73	74
30	---	---	---	66	66	66	55	53	54	93	75	77
31	---	---	---	66	66	66	---	---	---	96	88	93
MONTH	68	33	43	77	54	62	110	51	65	101	55	73

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	95	82	87	67	62	64	79	74	77	70	67	69
2	82	72	77	65	62	63	---	---	---	72	70	71
3	72	67	69	62	59	61	---	---	---	73	70	72
4	69	66	67	---	---	---	---	---	---	74	68	71
5	72	69	70	---	---	---	---	---	---	69	67	68
6	71	69	70	---	---	---	---	---	---	71	69	69
7	69	63	66	---	---	---	---	---	---	72	68	70
8	67	63	64	---	---	---	---	---	---	73	70	71
9	77	67	72	---	---	---	---	---	---	76	73	74
10	83	76	80	---	---	---	---	---	---	77	74	76
11	81	75	78	---	---	---	62	61	61	76	74	75
12	75	74	75	---	---	---	62	61	61	76	75	75
13	75	72	73	---	---	---	65	62	63	87	76	82
14	78	73	75	---	---	---	71	65	68	87	80	83
15	84	70	74	---	---	---	76	71	74	80	79	79
16	84	80	83	73	72	72	76	72	74	79	78	79
17	84	75	77	75	73	74	72	69	70	79	77	78
18	76	72	73	76	75	76	69	59	65	77	73	74
19	73	71	72	78	76	77	62	58	60	73	72	72
20	73	70	71	78	77	77	70	62	65	73	71	72
21	72	63	67	78	76	77	89	68	72	72	69	71
22	69	61	64	76	70	73	77	70	74	72	69	70
23	74	65	69	70	66	68	74	70	73	72	70	71
24	76	72	73	66	65	65	73	63	67	72	71	72
25	74	71	73	67	64	65	67	59	63	72	71	72
26	72	66	70	68	64	66	67	58	63	72	71	72
27	70	69	70	68	67	67	70	67	68	75	72	74
28	70	68	69	68	67	68	80	70	72	76	75	75
29	79	67	69	69	68	69	71	69	71	78	74	76
30	71	66	68	71	69	70	71	69	70	79	76	77
31	---	---	---	74	71	72	75	70	72	---	---	---
MONTH	95	61	72	78	59	70	89	58	68	87	67	74

HATCHIE RIVER BASIN

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	7.6	7.4
2	---	---	---	---	---	---	---	---	---	---	7.4	7.4
3	---	---	---	---	---	---	---	---	---	---	7.4	7.4
4	---	---	---	---	---	---	---	---	6.7	6.6	7.4	7.4
5	---	---	---	---	---	---	---	---	7.0	6.7	7.5	7.4
6	---	---	---	---	6.7	6.7	---	---	6.8	6.7	7.5	7.4
7	---	---	---	---	6.8	6.7	---	---	6.8	6.7	7.5	7.4
8	---	---	---	---	6.8	6.5	---	---	6.9	6.7	7.5	7.4
9	---	---	---	---	6.5	6.4	---	---	6.9	6.8	7.4	7.4
10	---	---	---	---	6.6	6.5	---	---	7.0	6.8	7.4	6.7
11	---	---	---	---	6.6	6.5	---	---	7.0	6.9	7.4	7.3
12	---	---	---	---	6.7	6.6	---	---	7.0	6.9	7.4	7.2
13	---	---	---	---	6.7	6.7	---	---	7.0	6.9	7.3	7.2
14	---	---	---	---	6.7	6.7	---	---	7.1	7.0	7.3	7.2
15	---	---	---	---	6.7	6.7	---	---	7.1	7.0	7.3	7.2
16	---	---	---	---	6.7	6.7	---	---	7.1	7.1	7.3	7.2
17	---	---	---	---	6.7	6.7	---	---	7.2	7.1	7.2	7.1
18	---	---	---	---	6.7	6.7	---	---	7.2	7.1	7.3	7.2
19	---	---	---	---	6.8	6.7	---	---	7.2	7.1	7.3	7.2
20	---	---	---	---	6.8	6.8	---	---	7.2	7.1	7.3	7.2
21	---	---	---	---	6.8	6.8	---	---	7.2	7.1	7.3	7.1
22	---	---	---	---	6.8	6.8	---	---	7.2	7.1	7.2	7.1
23	---	---	---	---	---	---	---	---	7.2	7.2	7.1	6.9
24	---	---	---	---	---	---	---	---	7.2	7.2	6.9	6.9
25	---	---	---	---	---	---	---	---	7.2	7.2	6.9	6.9
26	---	---	---	---	---	---	---	---	7.4	7.2	6.9	6.8
27	---	---	---	---	---	---	---	---	7.4	7.3	6.9	6.9
28	---	---	---	---	---	---	---	---	7.4	7.3	6.9	6.9
29	---	---	---	---	---	---	---	---	7.4	7.4	6.9	6.9
30	---	---	---	---	---	---	---	---	---	---	7.0	6.9
31	---	---	---	---	---	---	---	---	---	---	7.0	6.9
MONTH	---	---	---	---	6.8	6.4	---	---	7.4	6.6	7.6	6.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	7.0	6.8	6.8	7.2	6.9	6.7	6.6	6.8	6.7	6.5	6.4
2	7.0	7.0	6.9	6.8	7.1	7.0	6.7	6.7	---	---	6.5	6.5
3	7.0	7.0	7.0	6.9	7.0	7.0	6.7	6.7	---	---	6.5	6.5
4	7.0	7.0	7.2	6.6	7.0	6.9	---	---	---	---	6.5	6.5
5	7.0	7.0	7.2	7.1	7.0	6.9	---	---	---	---	6.5	6.5
6	7.0	7.0	7.2	7.1	6.9	6.8	---	---	---	---	6.5	6.5
7	7.0	7.0	7.2	7.1	6.9	6.8	---	---	---	---	6.8	6.5
8	---	---	7.1	7.0	6.8	6.8	---	---	---	---	6.8	6.7
9	---	---	7.1	7.0	6.9	6.8	---	---	---	---	6.7	6.7
10	---	---	7.1	6.9	6.8	6.8	---	---	---	---	6.7	6.7
11	---	---	7.0	6.9	6.8	6.7	---	---	6.4	6.4	6.7	6.7
12	---	---	6.9	6.7	6.8	6.6	---	---	6.5	6.4	6.7	6.7
13	---	---	6.8	6.7	6.7	6.6	---	---	6.5	6.5	6.7	6.6
14	---	---	6.8	6.7	6.6	6.5	---	---	6.5	6.4	6.7	6.6
15	---	---	6.8	6.7	6.8	6.5	---	---	6.5	6.4	6.7	6.6
16	---	---	6.7	6.6	6.8	6.6	6.6	6.6	6.6	6.4	6.7	6.7
17	---	---	6.7	6.5	6.8	6.7	6.6	6.6	6.7	6.5	6.7	6.6
18	---	---	6.5	6.5	6.7	6.7	6.7	6.6	6.7	6.6	6.7	6.6
19	---	---	6.6	6.5	6.8	6.7	6.7	6.7	6.6	6.5	6.7	6.6
20	---	---	6.6	6.6	6.9	6.8	6.7	6.7	6.5	6.4	6.7	6.6
21	7.0	6.9	6.7	6.6	6.9	6.8	6.9	6.7	6.6	6.4	6.6	6.3
22	7.1	6.9	6.7	6.7	6.8	6.8	6.9	6.9	6.5	6.4	6.6	6.5
23	6.9	6.8	6.7	6.7	6.8	6.8	6.9	6.9	6.6	6.5	6.6	6.6
24	6.9	6.7	6.9	6.7	6.9	6.8	6.9	6.9	6.6	6.3	6.6	6.6
25	6.8	6.7	6.9	6.8	6.8	6.8	6.9	6.8	6.3	6.1	6.6	6.6
26	6.7	6.7	7.0	6.9	6.8	6.7	6.8	6.8	6.2	6.1	6.6	6.6
27	6.8	6.7	7.0	7.0	6.8	6.7	6.9	6.8	6.3	6.2	6.7	6.6
28	6.8	6.8	7.0	7.0	6.8	6.8	6.9	6.9	6.5	6.3	6.7	6.6
29	6.8	6.8	7.1	7.0	6.8	6.8	6.9	6.9	6.4	6.3	6.7	6.6
30	6.8	6.8	7.1	7.0	6.8	6.7	6.9	6.9	6.4	6.4	6.7	6.6
31	---	---	7.1	6.9	---	---	6.9	6.8	6.4	6.4	---	---
MONTH	7.1	6.7	7.2	6.5	7.2	6.5	6.9	6.6	6.8	6.1	6.8	6.3

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	8.6	8.2	8.4	8.6	8.4	8.5	6.9	6.7	6.8
2	---	---	---	8.2	7.9	8.1	8.7	8.5	8.6	7.3	6.8	7.1
3	---	---	---	7.9	7.7	7.8	8.6	8.5	8.6	7.6	7.3	7.5
4	9.5	9.2	9.2	7.9	7.5	7.7	8.6	8.4	8.5	7.9	7.6	7.8
5	9.6	8.5	9.4	7.6	7.3	7.5	8.5	8.2	8.3	8.0	7.6	7.8
6	9.6	9.4	9.5	7.6	7.2	7.4	8.2	7.9	8.0	7.9	7.6	7.7
7	10.4	9.6	10.0	7.8	7.4	7.6	7.9	7.4	7.6	7.8	7.5	7.6
8	11.3	10.4	10.9	8.0	7.7	7.8	7.4	7.2	7.3	7.5	7.3	7.4
9	11.5	11.3	11.4	8.3	7.9	8.1	7.2	7.0	7.1	7.4	7.2	7.3
10	11.7	11.5	11.6	10.0	8.2	8.8	7.0	6.9	7.0	7.5	7.2	7.3
11	11.7	11.5	11.6	9.7	9.2	9.5	7.1	7.0	7.0	7.2	6.9	7.0
12	11.7	11.6	11.7	10.0	9.5	9.7	7.1	6.3	6.8	6.9	6.6	6.7
13	12.1	11.7	11.9	10.0	9.6	9.8	6.9	5.9	6.4	6.7	6.6	6.7
14	12.0	11.7	11.8	10.1	9.7	9.9	7.1	6.5	6.8	7.0	6.7	6.9
15	11.7	11.4	11.5	10.1	9.8	9.9	7.2	7.0	7.0	7.2	6.8	7.0
16	11.5	11.4	11.5	10.1	9.7	9.9	7.4	7.2	7.3	7.4	7.1	7.2
17	11.5	11.3	11.4	10.6	9.9	10.2	7.4	7.2	7.3	7.3	6.7	6.9
18	11.3	10.9	11.2	10.4	10.0	10.2	7.3	7.2	7.2	7.0	6.7	6.8
19	10.9	10.1	10.5	10.2	9.7	9.9	7.2	6.9	7.0	6.7	6.6	6.7
20	10.1	9.2	9.7	9.8	9.2	9.5	6.9	6.4	6.6	6.8	6.6	6.7
21	9.2	8.9	9.1	9.4	8.9	9.2	6.5	6.0	6.2	6.8	6.7	6.7
22	9.0	8.7	8.9	10.0	9.3	9.6	6.0	5.2	5.5	6.7	6.6	6.7
23	8.7	8.5	8.6	10.0	9.7	9.8	5.2	4.9	5.1	6.8	6.5	6.6
24	8.5	8.2	8.3	10.0	9.8	9.9	5.2	4.9	5.1	6.7	6.6	6.6
25	8.4	8.2	8.3	9.9	9.7	9.8	5.5	5.2	5.3	6.7	6.6	6.6
26	8.8	8.3	8.5	9.7	9.5	9.6	5.9	5.4	5.7	6.7	6.5	6.6
27	9.0	8.6	8.8	9.5	9.2	9.3	6.4	5.9	6.1	6.7	6.5	6.6
28	9.1	8.8	9.0	9.2	8.8	9.0	6.7	6.3	6.5	6.7	6.6	6.6
29	8.9	8.6	8.8	8.8	8.6	8.7	6.9	6.6	6.7	6.7	6.6	6.6
30	---	---	---	8.6	8.4	8.5	6.9	6.7	6.8	6.6	6.4	6.5
31	---	---	---	8.6	8.3	8.5	---	---	---	6.6	5.7	6.1
MONTH	12.1	8.2	10.1	10.6	7.2	9.0	8.7	4.9	6.9	8.0	5.7	6.9

HATCHIE RIVER BASIN

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.3	5.7	6.0	6.8	6.3	6.7	6.4	6.0	6.2	7.0	6.7	6.9
2	5.8	5.6	5.7	6.4	6.2	6.3	---	---	---	7.1	7.0	7.0
3	6.2	5.8	6.0	6.4	6.4	6.4	---	---	---	7.2	7.0	7.1
4	6.3	6.2	6.3	---	---	---	---	---	---	7.2	7.1	7.2
5	6.5	6.3	6.4	---	---	---	---	---	---	7.3	7.2	7.2
6	6.8	6.5	6.6	---	---	---	---	---	---	7.2	7.2	7.2
7	7.0	6.8	6.9	---	---	---	---	---	---	7.3	6.5	7.0
8	7.1	7.0	7.0	---	---	---	---	---	---	6.7	6.5	6.6
9	7.1	6.9	7.1	---	---	---	---	---	---	6.7	6.6	6.6
10	7.1	6.9	7.0	---	---	---	---	---	---	6.9	6.6	6.7
11	7.1	6.9	7.0	---	---	---	7.0	6.9	7.0	6.9	6.7	6.8
12	7.1	7.0	7.0	---	---	---	7.3	7.0	7.1	7.1	6.7	6.9
13	7.0	6.9	7.0	---	---	---	7.4	7.3	7.3	6.9	6.0	6.4
14	6.9	6.7	6.8	---	---	---	7.6	7.3	7.5	7.0	6.0	6.7
15	6.9	6.3	6.8	---	---	---	7.7	7.4	7.5	7.1	6.8	6.9
16	6.5	5.8	6.1	5.3	5.1	5.2	8.0	7.6	7.8	7.0	6.8	6.9
17	6.4	6.0	6.2	5.4	5.1	5.2	8.3	8.0	8.1	7.3	6.9	7.1
18	6.3	6.1	6.2	5.4	5.3	5.3	8.2	8.2	8.2	7.6	7.3	7.4
19	6.6	6.3	6.5	5.7	5.4	5.6	8.2	7.8	8.1	7.8	7.5	7.6
20	6.7	6.6	6.7	5.9	5.7	5.8	7.8	7.4	7.6	7.9	7.7	7.8
21	6.8	6.7	6.8	6.5	5.8	6.2	7.5	6.6	7.1	7.8	7.5	7.7
22	6.8	6.6	6.7	6.5	6.3	6.4	7.3	6.8	7.1	7.7	7.4	7.6
23	6.8	6.7	6.7	6.6	6.4	6.5	7.4	6.4	7.2	7.8	7.5	7.6
24	7.0	6.7	6.9	6.5	6.4	6.5	7.1	6.0	6.5	7.7	7.5	7.6
25	6.8	6.6	6.7	6.6	6.2	6.5	6.5	5.3	5.9	7.6	7.4	7.5
26	6.7	6.4	6.6	6.4	6.2	6.3	5.8	5.3	5.6	7.8	7.5	7.6
27	6.9	6.5	6.7	6.5	6.4	6.5	6.0	5.6	5.8	7.9	7.6	7.8
28	7.0	6.8	6.9	6.8	6.5	6.7	6.6	5.6	6.0	8.1	7.7	7.9
29	7.1	6.7	7.0	6.8	6.7	6.7	6.1	5.8	5.9	8.2	7.8	8.0
30	7.0	6.7	6.9	6.8	6.6	6.8	6.5	6.1	6.3	8.4	7.9	8.1
31	---	---	---	6.6	6.4	6.5	6.9	6.5	6.8	---	---	---
MONTH	7.1	5.6	6.6	6.8	5.1	6.2	8.3	5.3	6.9	8.4	6.0	7.2

07030050 HATCHIE RIVER AT RIALTO, TN—Continued

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	33	20
2	---	---	---	---	---	---	---	---	---	---	26	23
3	---	---	---	---	---	---	---	---	---	---	26	24
4	---	---	---	---	---	---	---	---	38	36	24	23
5	---	---	---	---	---	---	---	---	240	36	25	23
6	---	---	---	---	34	32	---	---	85	67	25	24
7	---	---	---	---	33	32	---	---	80	73	25	24
8	---	---	---	---	34	32	---	---	96	78	24	23
9	---	---	---	---	35	33	---	---	83	63	70	23
10	---	---	---	---	110	34	---	---	63	54	32	20
11	---	---	---	---	65	48	---	---	54	46	20	19
12	---	---	---	---	50	43	---	---	48	41	19	18
13	---	---	---	---	45	40	---	---	44	40	19	17
14	---	---	---	---	46	40	---	---	45	42	17	16
15	---	---	---	---	42	40	---	---	42	39	18	16
16	---	---	---	---	42	40	---	---	39	35	17	16
17	---	---	---	---	41	38	---	---	37	32	17	16
18	---	---	---	---	39	36	---	---	33	30	17	16
19	---	---	---	---	36	33	---	---	30	28	17	16
20	---	---	---	---	34	32	---	---	28	26	26	16
21	---	---	---	---	33	31	---	---	26	25	83	26
22	---	---	---	---	32	30	---	---	25	23	30	22
23	---	---	---	---	---	---	---	---	25	23	30	23
24	---	---	---	---	---	---	---	---	24	23	28	24
25	---	---	---	---	---	---	---	---	24	23	26	24
26	---	---	---	---	---	---	---	---	23	21	27	24
27	---	---	---	---	---	---	---	---	22	21	27	23
28	---	---	---	---	---	---	---	---	22	20	26	22
29	---	---	---	---	---	---	---	---	21	20	22	21
30	---	---	---	---	---	---	---	---	---	---	23	19
31	---	---	---	---	---	---	---	---	---	---	20	19
MONTH	---	---	---	---	110	30	---	---	240	20	83	16
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21	19	24	21	300	160	240	100	45	29	42	27
2	21	18	22	20	360	160	140	70	---	---	36	24
3	22	19	20	17	190	140	89	65	---	---	41	26
4	22	19	20	16	160	130	---	---	---	---	49	27
5	22	19	19	18	130	95	---	---	---	---	47	25
6	21	19	20	18	---	---	---	---	---	---	34	24
7	21	18	23	20	---	---	---	---	---	---	35	17
8	22	17	26	22	---	---	---	---	---	---	25	16
9	22	17	68	24	---	---	---	---	---	---	25	14
10	20	17	180	26	---	---	---	---	---	---	28	13
11	20	16	160	39	---	---	---	---	33	23	24	14
12	20	17	140	88	---	---	---	---	46	20	29	15
13	53	19	150	69	---	---	---	---	26	18	83	29
14	60	45	210	83	---	---	---	---	29	17	37	16
15	59	44	150	80	---	---	---	---	30	19	32	15
16	44	33	180	80	260	100	16	11	27	20	33	15
17	34	27	180	80	140	80	20	15	29	20	28	14
18	28	25	97	49	110	59	28	19	30	20	30	14
19	26	24	49	38	61	49	26	23	33	25	25	14
20	25	21	39	33	54	46	28	24	31	25	30	14
21	22	20	36	31	96	46	32	27	130	31	40	17
22	200	19	33	30	110	56	38	29	57	31	24	16
23	160	63	31	28	110	54	44	35	180	27	23	16
24	200	58	29	27	100	54	46	38	180	62	24	16
25	71	55	29	25	180	66	110	37	180	88	22	17
26	58	53	28	24	170	65	78	48	160	61	24	16
27	58	51	26	23	120	67	48	36	61	44	29	17
28	51	39	25	22	120	59	38	33	120	37	29	16
29	39	30	25	22	190	59	34	28	120	56	39	16
30	30	24	46	22	240	65	32	28	58	38	44	18
31	---	---	350	46	---	---	35	28	38	28	---	---
MONTH	200	16	350	16	360	46	240	11	180	17	83	13